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Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ition No.	Applicant(s)		
		09/435	.899	SEGER, PAUL JOSEPH		
Office Action Summary		Examin		Art Unit		
		Jacob F	. Betit	2175		
	The MAILING DATE of this commu	nication appears on t	the cover sheet with the d	correspondence address		
Period fo	r Reply					
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN usions of time may be available under the provision. SIX (6) MONTHS from the mailing date of this com- period for reply specified above is less than thirty ( uperiod for reply is specified above, the maximum is reto reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no munication. 30) days, a reply within the s tatutory period will apply and y will, by statute, cause the a	event, however, may a reply be tir statutory minimum of thirty (30) day d will expire SIX (6) MONTHS from application to become ABANDONE	nely filed  is will be considered timely.  the mailing date of this communication.  D (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) fil	ed on <u>19 May 2004</u> .				
·	·	2b) This action is				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims		•			
5)□ 6)⊠ 7)□	Claim(s) <u>1-50</u> is/are pending in the 4a) Of the above claim(s) is/a Claim(s) is/are allowed.  Claim(s) <u>1-50</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restrict	are withdrawn from o				
Applicati	on Papers					
9)[	The specification is objected to by the	ne Examiner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	under 35 U.S.C. § 119					
a)l	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internations  See the attached detailed Office actions	y documents have by documents have be of the priority docu	een received. een received in Applicat ments have been receiv Rule 17.2(a)).	ion No ed in this National Stage ed. DOV POPOVICI		
Attachmen				SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100		
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review ( mation Disclosure Statement(s) (PTO-1449 or  Property (PTO-1449 or Property)  The property (PTO-1449 or PTO-1449 or PTO-		4) Interview Summany Paper No(s)/Mail D 5) Notice of Informal D 6) Other:			

#### **DETAILED ACTION**

#### Remarks

1. In response to communications filed on 19-May-2004, claims 1-50 are presently pending in the application.

#### Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 3-5, 17-19, 30-32, and 41-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 3, 17, and 30 recite the limitation "wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key". This limitation renders the claims indefinite because claims 1, 15, and 29, on which they depend, recite the limitation "combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity" which implies that the entire authentication message is combined with the entire user identifier and not just a part of the user identifier as recited in claims 3, 17, and 30. For the purpose of examining it is assumed claims 1, 15, and 29 read --combining the user authentication message

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with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity--.

Claims 4-5 are rejected because they are dependent on rejected dependent claim 3.

Claims 18-19 are rejected because they are dependent on rejected dependent claim 17.

Claims 31-32 are rejected because they are dependent on rejected dependent claim 30.

Claim 41 recites the limitation "computer processor to conduct said combination by decrypting said user authentication message by said user decrypting key". This limitation renders the claim indefinite because claim 40, on which it depends, recites the limitation "computer processor to combine said user authentication message with said user identifier from said user table in accordance with said predetermined algorithm to authorize or deny said user activity" which implies that the entire authentication message is combined with the entire user identifier and not just a part of the user identifier as recited in claim 41. For the purpose of examining it is assumed that claim 40 reads -- computer processor to combine said user authentication message with at least part of said user identifier from said user table in accordance with said predetermined algorithm to authorize or deny said user activity--.

Claims 42-43 are rejected because they are dependent on rejected dependent claim 41.

Appropriate correction is required.

#### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Anderl et al.</u> (International Publication No. 87/07062) in view of <u>Smith</u> (U.S. patent No. 4,9563,769).

As to claim 1, <u>Anderl et al.</u> teaches a portable security system for managing access to a portable data storage cartridge, the data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in the data storage drive (see abstract), the portable security system comprising:

a wireless interface mounted in the portable data storage cartridge for receiving power and data from, and sending data to, the data storage drive when mounted in the data storage drive (see page 5, line 31 through page 6, line 23); and

a computer processor mounted in the portable data storage cartridge and coupled to the wireless interface (see figure 1, reference numbers 110, 120, and 130); the computer processor powered by the wireless interface and receiving and transmitting data to the data storage drive via the wireless interface (see page 5, line 31 through page 6, line 23); the computer processor

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receiving the user authentication messages from the data storage drive via the wireless interface, and transmitting the user authorization or denial to the data storage drive via the wireless interface (see page 10, lines 19-26).

Anderl et al. does not teach the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

Smith teaches a security system for computer databases (see abstract), in which he teaches the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media (see column 2, lines 11-17), the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user (see column 5, lines 9-14 and see figure 1); and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity (see column 5, lines 9-14 and see figure 1).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> to include the computer processor having a user table comprising at least a unique user identifier for each authorized user and at

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least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. by the teachings of Smith because the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity would limit the access of selected users to pre-selected locations which they are authorized to access (see Smith, column 1, lines 7-12).

As to claim 15, <u>Anderl et al.</u> teaches a data storage cartridge for storing data for read/write access by a user of a data storage drive when mounted in the data storage drive (see abstract), comprising:

data storage media mounted in the data storage cartridge for storing the data for the read/write access (see figure 1, reference number 115); a wireless interface mounted in the portable data storage cartridge for receiving power and data from, and sending data to, the data

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storage drive when mounted in the data storage drive (see page 5, line 31 through page 6, line 23); and

a computer processor mounted in the portable data storage cartridge and coupled to the wireless interface (see figure 1, reference numbers 110, 120, and 130); the computer processor powered by the wireless interface and receiving and transmitting data to the data storage drive via the wireless interface (see page 5, line 31 through page 6, line 23); the computer processor receiving the user authentication messages from the data storage drive via the wireless interface, and transmitting the user authorization or denial to the data storage drive via the wireless interface (see page 10, lines 19-26).

Anderl et al. does not teach the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

Smith teaches the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media (see column 2, lines 11-17), the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user (see column 5, lines 9-14 and see figure 1); and combining the user authentication message with the user identifier from the user table in

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accordance with the predetermined algorithm to authorize or deny the user activity (see column 5, lines 9-14 and see figure 1).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. to include the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. by the teachings of Smith because the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity would limit the access of selected users to pre-selected locations which they are authorized to access (see Smith, column 1, lines 7-12).

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As to claim 29, Anderl et al. teaches a method for providing a portable secure interface to a data storage cartridge (see abstract, where it is inherent that "a method for providing a portable secure interface to a data storage cartridge" is disclosed in "a portable data carrier system" that does not provide information of particular applications or file structure to its users), the data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in the data storage drive (see figure 1, reference number 115), and a wireless interface mounted in the portable data storage cartridge for receiving power and data from, and sending data to, the data storage drive when mounted in the data storage drive (see page 5, line 31 through page 6, line 23), the method comprising the steps of:

receiving the user authentication messages from the data storage drive via the wireless interface; and transmitting the user authorization or denial to the data storage drive via the wireless interface (see page 10, lines 19-26).

Anderl et al. does not teach the data storage cartridge having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

Smith teaches the data storage cartridge having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media (see column 2, lines 11-17), the user identifier,

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when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user (see column 5, lines 9-14 and see figure 1); and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity (see column 5, lines 9-14 and see figure 1).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. to include the data storage cartridge having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. by the teachings of Smith because the data storage cartridge having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity would limit

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the access of selected users to pre-selected locations which they are authorized to access (see Smith, column 1, lines 7-12).

As to claim 40, Anderl et al. teaches a computer program product usable with a programmable Computer processor having computer readable program code embodied therein for providing a secure interface to a data storage cartridge (see abstract), the programmable computer processor mounted in the data storage cartridge (see figure 1, reference number 110), the data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in the data storage drive (see figure 1, reference number 115), and a wireless interface mounted in the portable data storage cartridge for receiving power and data from, and sending data to, the data storage drive when mounted in the data storage drive (see page 5, line 31 through page 6, line 23), the computer program product comprising:

computer readable program code which causes the programmable computer processor to receive the user authentication messages from the data storage drive via the wireless interface; and computer readable program code which causes the programmable computer processor to transmit the user authorization or denial to the data storage drive via the wireless interface (see page 10, lines 19-26).

Anderl et al. does not teach computer readable program code which causes the programmable computer processor to provide a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user

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authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combine the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

Smith teaches computer readable program code which causes the programmable computer processor to provide a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media (see column 2, lines 11-17), the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user (see column 5, lines 9-14 and see figure 1); and computer readable program code which causes the programmable computer processor to combine the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity (see column 5, lines 9-14 and see figure 1).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. to include computer readable program code which causes the programmable computer processor to provide a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and computer readable program code which causes the programmable computer processor to combine the user authentication

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message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. by the teachings of Smith because computer readable program code which causes the programmable computer processor to provide a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and computer readable program code which causes the programmable computer processor to combine the user authentication message with the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity would limit the access of selected users to preselected locations which they are authorized to access (see Smith, column 1, lines 7-12).

As to claims 6, 20, and 44, <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table permitted activities comprise a plurality of permitted activities, selected ones of which each of the users may be authorized to conduct, the permitted activities comprising 1) read access to data stored in the data storage media, 2) write access to data stored in the data storage media (see <u>Smith</u>, column 4, lines 59-66), 3) read the user entry of the user table, 4) read all entries of the user table, 5) add entries to the user table, and 6) change/delete entries to the user table (see Smith, column 3, line 62 through column 4, line 14).

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As to claims 8, 22, and 46, <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table comprises a separate entry for each the user identifier, the entry comprising all the permitted activities the user is authorized to conduct (see <u>Smith</u>, column 2, lines 11-17).

As to claims 9 and 23, <u>Anderl et al.</u> as modified, teaches wherein the computer processor additionally comprises a nonvolatile memory storing the user table (see <u>Anderl et al.</u>, page 11, lines 21-26).

As to claim 33, <u>Anderl et al.</u> as modified, teaches wherein the user table comprises a plurality of the permitted activities, selected ones of which each of the users may be authorized to conduct, the permitted activities comprising 1) read access to data stored in the data storage media, 2) write access to data stored in the data storage media (see <u>Smith</u> column 4, lines 59-66), 3) read the user entry of the user table, 4) read all entries of the user table, 5) add entries to the user table, and 6) change/delete entries to the user table; and wherein the transmitting step comprises transmitting authorization to conduct the selected the user permitted activities the user is authorized to conduct (see <u>Smith</u>, column 3, line 62 through column 4, line 14).

As to claim 35, Anderl et al. as modified, teaches wherein the step of providing the user table comprises a separate entry for each the user identifier, the entry comprising all the permitted activities the user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the user separate entry (see Smith, column 2, lines 11-17).

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6. Claims 2 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderl et al. (International Publication No. 87/07062) in view of Smith (U.S. patent No. 4,9563,769) as applied to claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 above, and further in view of Davis (U.S. patent No. 4,941,201).

As to claims 2 and 16, <u>Anderl et al.</u> as modified, does not teach wherein the wireless interface comprises an RF interface.

<u>Davis</u> teaches an electronic data storage apparatus (see abstract), in which he teaches wherein the wireless interface comprises an RF interface (see column 5, lines 55-61 and see column 21, lines 31-46, where 100 kHz is in the RF range of the Electromagnetic Spectrum).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein the wireless interface comprises an RF interface.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, by the teachings of <u>Davis</u> because wherein the wireless interface comprises an RF interface would make the propagation delay between the outputs of the inverters 5 microseconds (see <u>Davis</u>, column 21, lines 39-46).

7. Claims 3-5, 17-19, 30-31, and 41-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderl et al. (International Publication No. 87/07062) in view of Smith (U.S.

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patent No. 4,9563,769) as applied to claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 above, and further in view of Wright et al. (U.S. patent No. 6,084,969).

As to claims 3, 17, 30, and 41, <u>Anderl et al.</u> as modified, does not teach wherein each the user identifier comprises a user symbol and a user decrypting key, wherein the user authentication message comprises an encrypted user authentication message which may be decrypted by the user decrypting key, and wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key.

Wright et al. teaches an encryption system for a two way pager (see abstract), in which he teaches wherein each the user identifier comprises a user symbol and a user decrypting key (see column 11, line 65 through column 12, line 5), wherein the user authentication message comprises an encrypted user authentication message which may be decrypted by the user decrypting key, and wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key (see column 12, lines 5-13).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein each the user identifier comprises a user symbol and a user decrypting key, wherein the user authentication message comprises an encrypted user authentication message which may be decrypted by the user decrypting key, and wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, by the teachings of <u>Wright et al.</u>

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because wherein each the user identifier comprises a user symbol and a user decrypting key, wherein the user authentication message comprises an encrypted user authentication message which may be decrypted by the user decrypting key, and wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key would authenticate the sender and protect the contents of the message (see <u>Wright et al.</u>, column 9, lines 51-56).

As to claims 4, 18, 31, and 42, <u>Anderl et al.</u> as modified, teaches wherein the user decrypting key comprises a sender public key, and wherein the predetermined algorithm comprises a public key cryptographic algorithm (see <u>Wright et al.</u>, column 12, lines 5-13).

As to claims 5 and 19, <u>Anderl et al.</u> as modified, teaches wherein the user authentication message is encrypted by a sender private key and a receiver public key (see <u>Wright et al.</u>, column 9, lines 51-56), and wherein the public key cryptographic algorithm decrypts the user authentication message employing a receiver private key and the sender public key, whereby the user authentication message is known to have come from the user (see <u>Wright et al.</u>, column 12, lines 5-13).

As to claims 32 and 43, Anderl et al. as modified, teaches wherein the user authentication message is encrypted by a sender private key and a receiver public key (see Wright et al., column 9, lines 51-56), wherein the public key cryptographic algorithm decrypts the user authentication message employing a receiver private key and the sender public key, and wherein the combining

step comprises decrypting the user authentication message by the receiver private key and the sender public key, whereby the user authentication message is known to have come from the user (see Wright et al., column 12, lines 5-13).

8. Claims 7, 10-13, 21, 24-27, 34, 36-38, 45, and 47-49 rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Anderl et al.</u> (International Publication No. 87/07062) in view of <u>Smith</u> (U.S. patent No. 4,9563,769) as applied to claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 above, and further in view of <u>Bapat et al.</u> (U.S. patent No. 6,038,563).

As to claims 7, 21, and 45, <u>Anderl et al.</u> as modified, does not teach wherein the computer processor user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct.

Bapat et al. teaches access control to a database using a permissions table (see abstract), in which he teaches wherein the computer processor user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct.

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein the computer processor user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, by the teachings of <u>Bapat et al.</u> because wherein the computer processor user table comprises a separate entry for each the user

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identifier and the permitted activity the user is authorized to conduct would give a way to grant or deny access to certain users (see <u>Bapat et al.</u>, column 11, lines 4-7).

As to claims 10, 24, 36, and 47, <u>Anderl et al.</u> as modified, teaches receiving the user authentication messages from the data storage drive via the wireless interface, and transmitting the class authorization or denial to the data storage drive via the wireless interface (see <u>Anderl et al.</u> page 12, lines 7-15, and see figure 7).

Anderl et al. as modified, does not teach wherein the computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity the class of users is authorized to conduct with respect to the data storage media, the class identifier, when combined with a user authentication message from a user of the authorized class of users in accordance with the predetermined algorithm, authorizes the user; and wherein the computer processor additionally, upon receiving the user authentication messages, combining the user authentication message with the class identifier from the class table in accordance with the predetermined algorithm to authorize or deny the class activity to the user, and transmitting the class authorization or denial.

Bapat et al. teaches wherein the computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity the class of users is authorized to conduct with respect to the data storage media, the class identifier (see column 10, lines 35-47), when combined with a user authentication message from a user of the authorized class of users in accordance with the predetermined algorithm, authorizes the user (see figure 5); and wherein the computer processor

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additionally, upon receiving the user authentication messages, combining the user authentication message with the class identifier from the class table in accordance with the predetermined algorithm to authorize or deny the class activity to the user, and transmitting the class authorization or denial (see figure 6).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. as modified, to include wherein the computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity the class of users is authorized to conduct with respect to the data storage media, the class identifier, when combined with a user authentication message from a user of the authorized class of users in accordance with the predetermined algorithm, authorizes the user; and wherein the computer processor additionally, upon receiving the user authentication messages, combining the user authentication message with the class identifier from the class table in accordance with the predetermined algorithm to authorize or deny the class activity to the user, and transmitting the class authorization or denial.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. as modified, by the teachings of Bapat et al. because wherein the computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity the class of users is authorized to conduct with respect to the data storage media, the class identifier, when combined with a user authentication message from a user of the authorized class of users in accordance with the predetermined algorithm, authorizes the user; and wherein the computer

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processor additionally, upon receiving the user authentication messages, combining the user authentication message with the class identifier from the class table in accordance with the predetermined algorithm to authorize or deny the class activity to the user, and transmitting the class authorization or denial would make an easy way to define a set of access rules to grant access rights to a broad group of users (see <u>Bapat et al.</u>, column 11, lines 56-59) and would help to reduce the amount of data required to define access rules (see <u>Bapat et al.</u>, column 9, lines 48-50).

As to claims 11, 25, 37, and 48, <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table additionally comprises any class membership of each the user (see <u>Bapat et al.</u>, Column 10, lines 4-10), wherein the user may be authorized with respect to the class table either by the class authorization or by the user authorization (see <u>Bapat et al.</u>, figure 15A).

As to claims 12, 26, and 49, Anderl et al. as modified, teaches wherein the computer processor user table and the class table permitted activities comprise a plurality of permitted activities, selected ones of which each of the users may be authorized to conduct, the permitted activities comprising 1) read access to data stored in the data storage media, 2) write access to data stored in the data storage media, 3) read all entries of the class table, 4) add entries to the class table, and 5) change/delete entries to the class table (see <u>Bapat et al.</u>, column 10, lines 35-47).

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As to claims 13 and 27, <u>Anderl et al.</u> as modified, teaches wherein the computer processor additionally comprises a 'nonvolatile memory storing the user table (see <u>Anderl et al.</u>, page 11, lines 14-26) and the class table (see <u>Bapat et al.</u>, column 7, lines 18-24).

As to claim 34, <u>Anderl et al.</u> as modified, does not teach wherein the user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the separate entries.

Bapat et al. teaches wherein the user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the separate entries (see column 10, lines 35-47).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein the user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the separate entries.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. as modified, by the teachings of Bapat et al. because wherein the user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct; and wherein the transmitting step

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additionally comprises identifying the user permitted activities from the separate entries would give a way to grant or deny access to certain users (see <u>Bapat et al.</u>, column 11, lines 4-7).

As to claim 38, <u>Anderl et al.</u> as modified, teaches wherein the user table and the class table comprise a plurality of permitted activities, selected ones of which each of the users may be authorized to conduct, the permitted activities comprising 1) read access to data stored in the data storage media, 2) write access to data stored in the data storage media, 3) read all entries of the class table, 4) add entries to the class table, and 5) change/delete entries to the class table; and wherein the transmitting step comprises transmitting authorization to conduct the selected the user and the class permitted activities the user is authorized to conduct (see <u>Bapat et al.</u>, column 10, lines 35-47).

9. Claims 14, 28, 39, and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderl et al. (International Publication No. 87/07062) in view of Smith (U.S. patent No. 4,9563,769) as applied to claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 above, and further in view of Hastings et al. (U.S. patent No. 6,370,629 B1).

As to claims 14, 28, 39, and 50 <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table permitted activities comprise at least 1) read access to data stored in the data storage media (see Smith, column 4, lines 59-66).

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Anderl et al. as modified, does not teach wherein the data stored in the data storage media is encrypted, and wherein the user authorization for the read access additionally comprises a decryption key for the encrypted stored data.

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Hastings et al. teaches giving access to information based on time and geographic position (see abstract), in which he teaches wherein the data stored in the data storage media is encrypted (see column 3, line 63 through column 4, line 4), and wherein the user authorization for the read access additionally comprises a decryption key for the encrypted stored data (see column 5, lines 52-61).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein the data stored in the data storage media is encrypted, and wherein the user authorization for the read access additionally comprises a decryption key for the encrypted stored data.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, by the teachings of <u>Hastings et al.</u> because wherein the data stored in the data storage media is encrypted, and wherein the user authorization for the read access additionally comprises a decryption key for the encrypted stored data would keep an unauthorized user from accessing the files (see <u>Hastings et al.</u>, column 5, lines 52-61).

Response to Arguments

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10. Applicant's arguments filed on 19-May-2004 with respect to rejected claims have been considered but are most in view of the new grounds of rejection.

#### Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. patent No. 6,477,653 B2 to <u>Naito</u> for teaching an information storage system that only grants access to users that first have access to a different medium (see abstract).

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob F. Betit whose telephone number is (703) 305-3735. The examiner can normally be reached on Monday through Friday 9 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (703) 305-3830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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jfb 1 Sep 2004 DOV POPOVICI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100